

PATENT

IN THE SPECIFICATION

Please amend the paragraphs of the specification as follows:

[0045] The image compressor 210 may further comprise an index module ~~[[214]]~~ that determines an index system to represent the positions of image pixels in an $n \times n$ ~~block~~. Some embodiments may provide a plurality of index systems, one of which is ~~selected~~ by the index module ~~[[214]]~~ depending upon the compression technique. In such case, ~~the~~ encoder 120 and decoder 175 stores the plurality of index systems and the index ~~module~~ 214 would transmit a signal to indicate the selected index system. In other embodiments, one fixed index system may be used to represent the image pixel locations.

[0047] Figure 7 shows one embodiment of an image compressor 300 comprising an ABSDCT module 710, a quantization module 720 and a variable length coding (VLC) module 730. The ABSDCT module 710 converts the digital image information from spatial to frequency domain using the ABSDCT technique and generates DCT coefficients with corresponding block size assignment information, such as the PQR information for the 16x16 data block. The quantization module 720 quantizes the DCT coefficients and the VLC 730 compresses the quantized DCT coefficients using a variable length coding technique. The image compressor 300 may further comprise an index module ~~[[740]]~~ that generates signals that indicate the index system used during the compression.

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